Area of Interest

WASHINGTON
Seattle
Spokane
Portland
OREGON

MONTANA
Missoula

IDAHO
Boise

Yellowstone National Park

WYOMING

Coeur d'Alene

Interstate 90

North Fork Coeur d'Alene River

Kootenai County / Shoshone County

MONTANA / IDAHO

Area 4 Kingston

Coeur d'Alene River

Enaville

Cataldo

Kingston

South Fork

Kellogg

Moon Gulch

Terror Gulch

Nuckols Gulch

Nine Mile Cr.

Canyon Cr.

Burke

Gem

Area 2 Burke / Nine Mile

Area 1 Mullan

Bunker Hill Region

Big Creek

Pine Creek

Area 6 Osburn

Coeur

Area 7 Silverton

Area 8 Wallace

d'Alene River

Mullan

Area 3 Side Gulches

Area 5 Lower Basin

Rose Lake

Coeur d'Alene River

Lane

Lake Coeur d'Alene

Harrison

Kootenai County / Benewah County

Lake Chatcolet

Area 4 Kingston

Legend:
- Basin Study Regions
- Streams and Tributaries
- Lakes

TerraGraphics
Environmental Engineering, Inc.

FILE	1999-07-13 Basin RA / fig8-1
DATE	07JUL2000
PROJECT NO.	980111

REQUESTOR	L.Wichers
DESIGNER	B. Bailey
CARTOGRAPHER	B. Bailey
APPROVED	L.Wichers

**Coeur d'Alene Basin
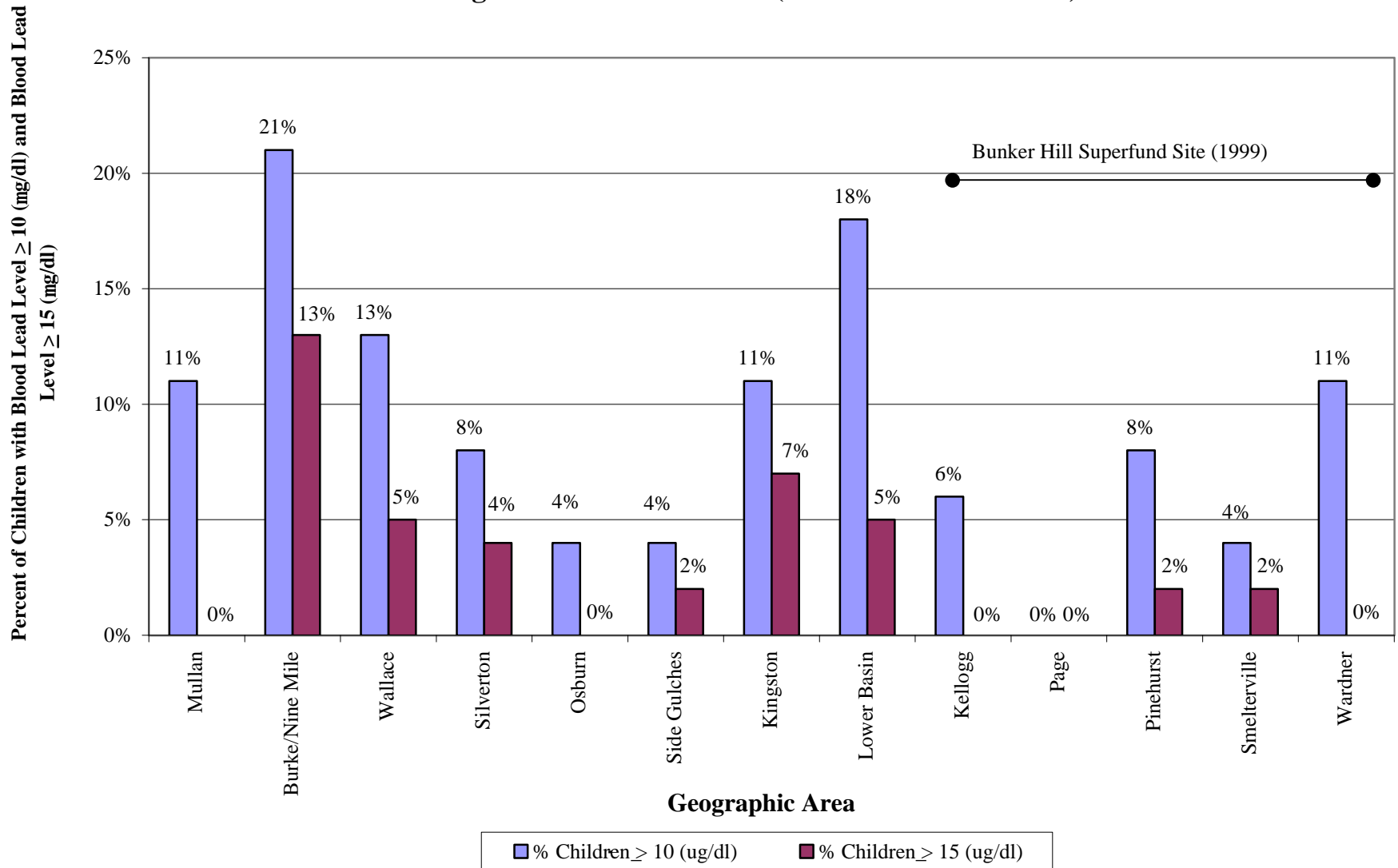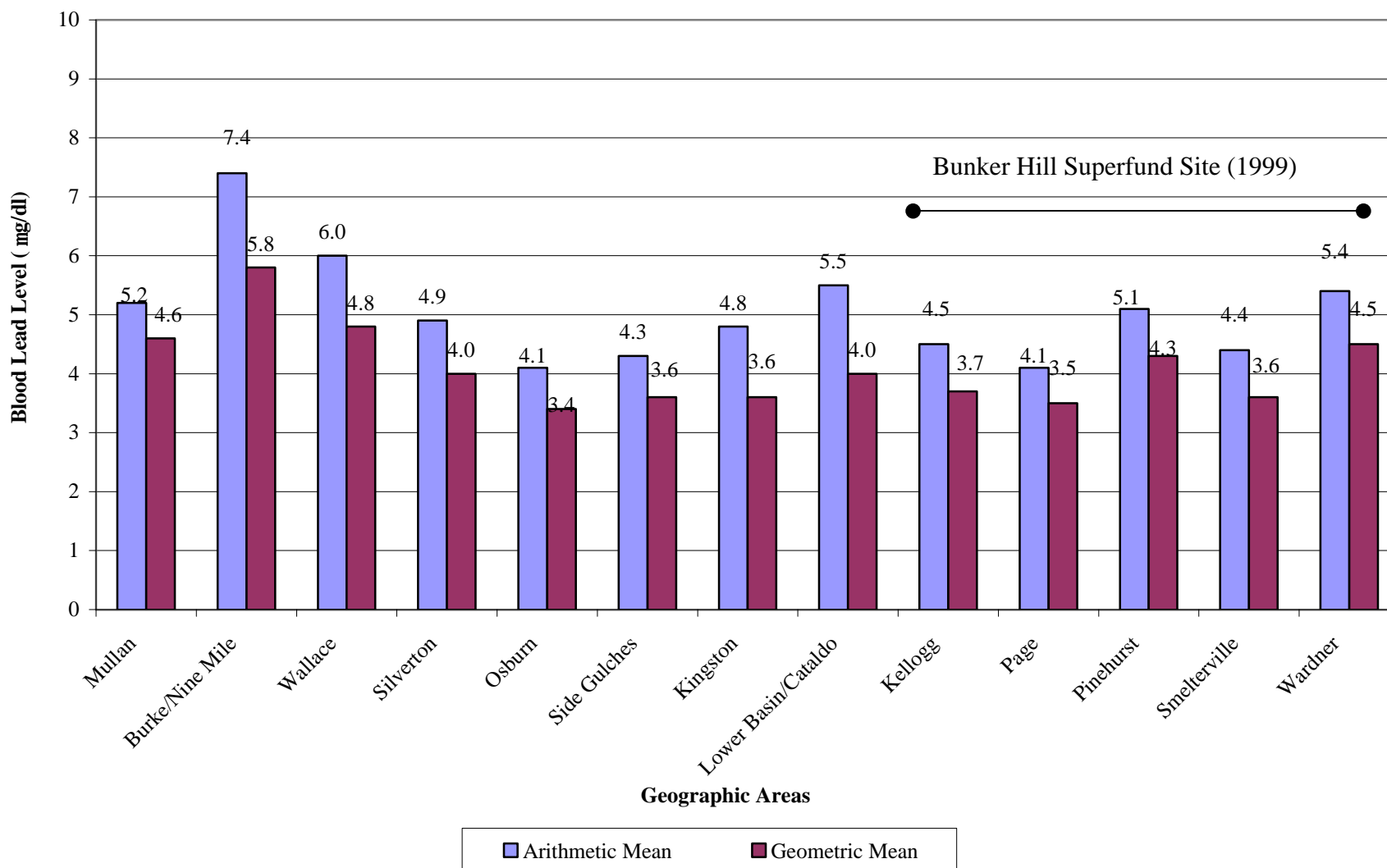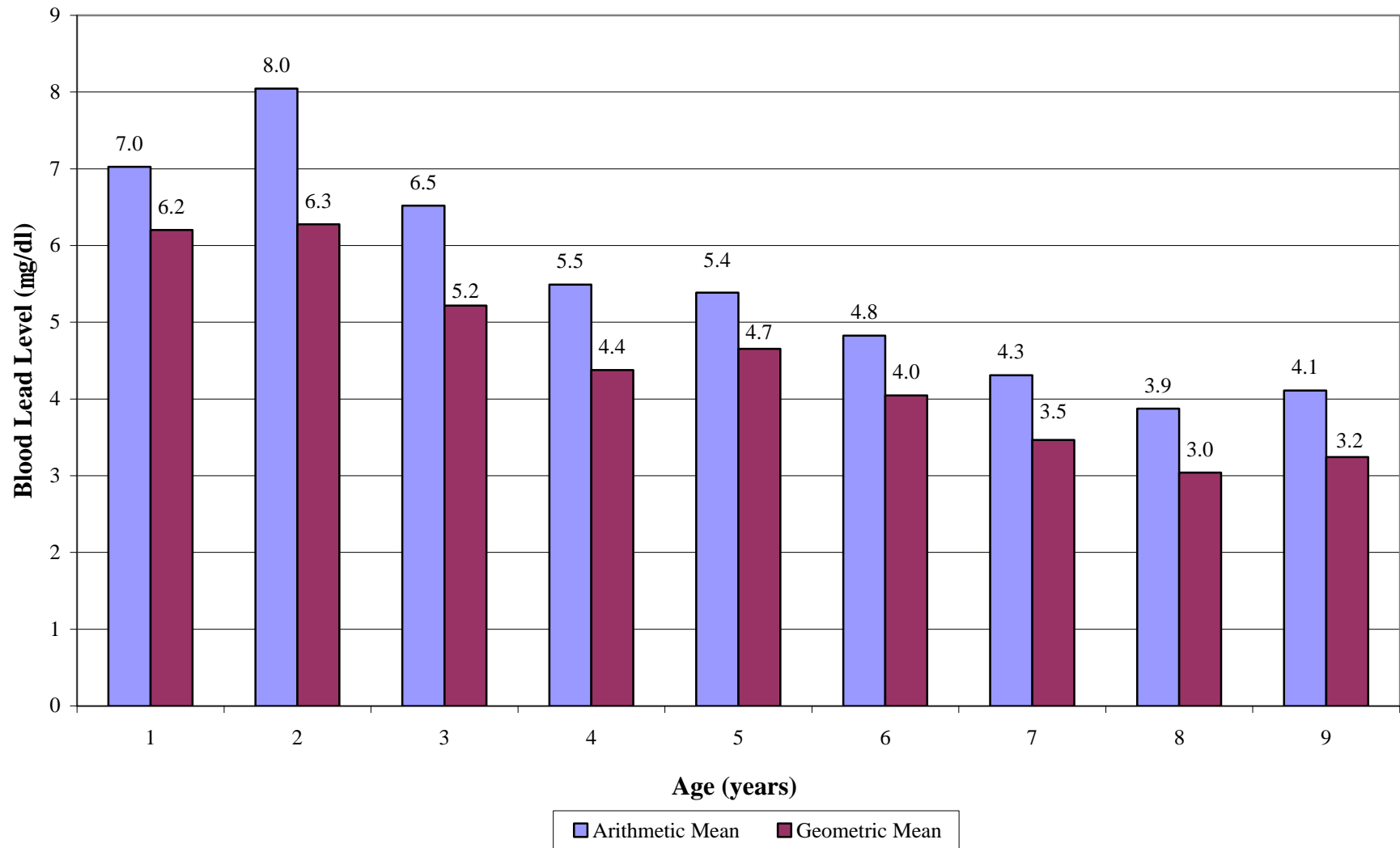Human Health Risk Assessment**

Figure 8-1

Coeur d'Alene Basin

Figure 8-2 Percent to Exceed Blood Lead Concentrations by Geographic Area - 9 Month through 9 Year old Children (1996 - 1999 Combined)
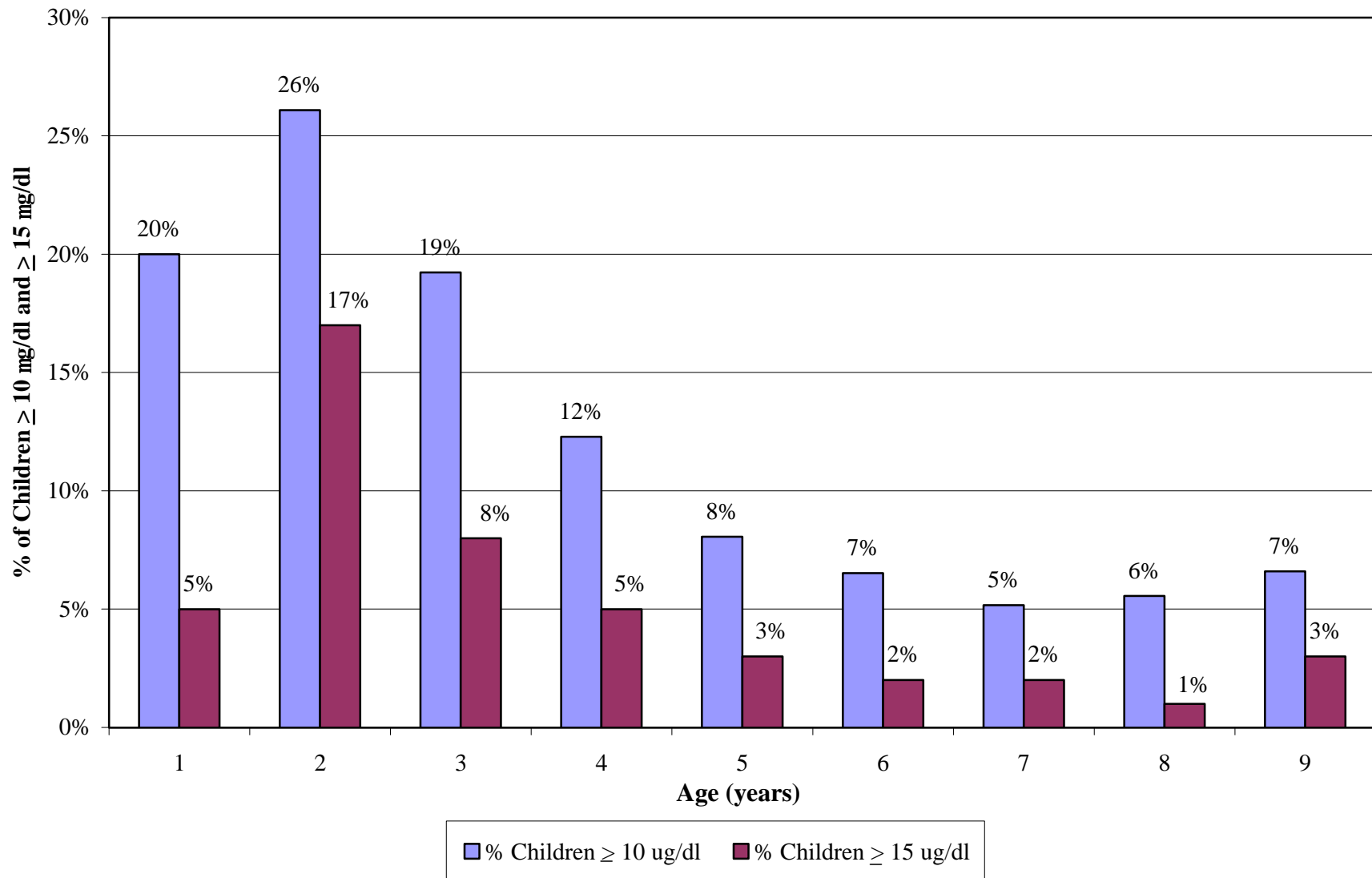
Figure 8-3 Arithmetic and Geometric Mean Blood Lead Concentrations by Geographic Area - 9 Month through 9 Year Old Children (1996 - 1999 Combined)
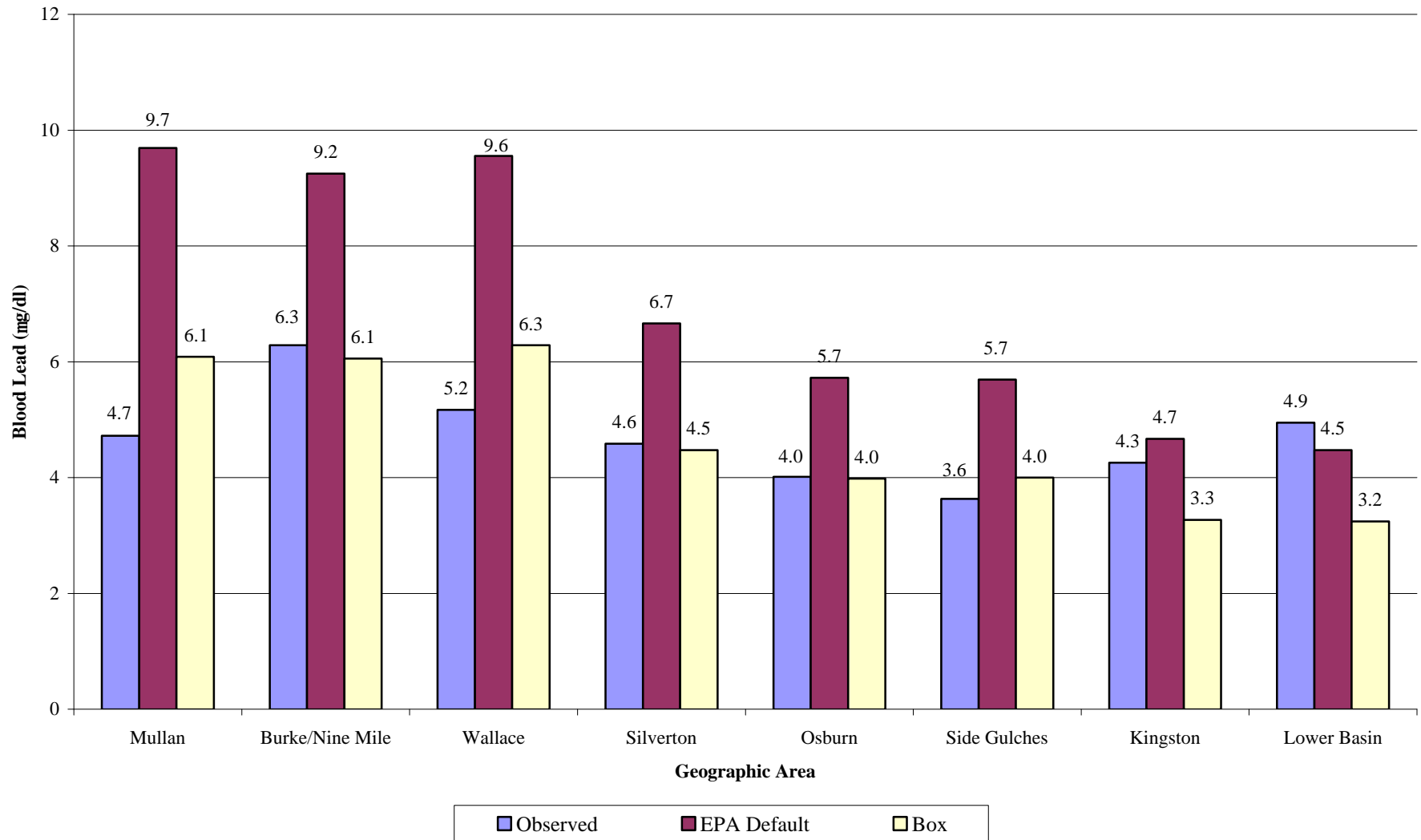
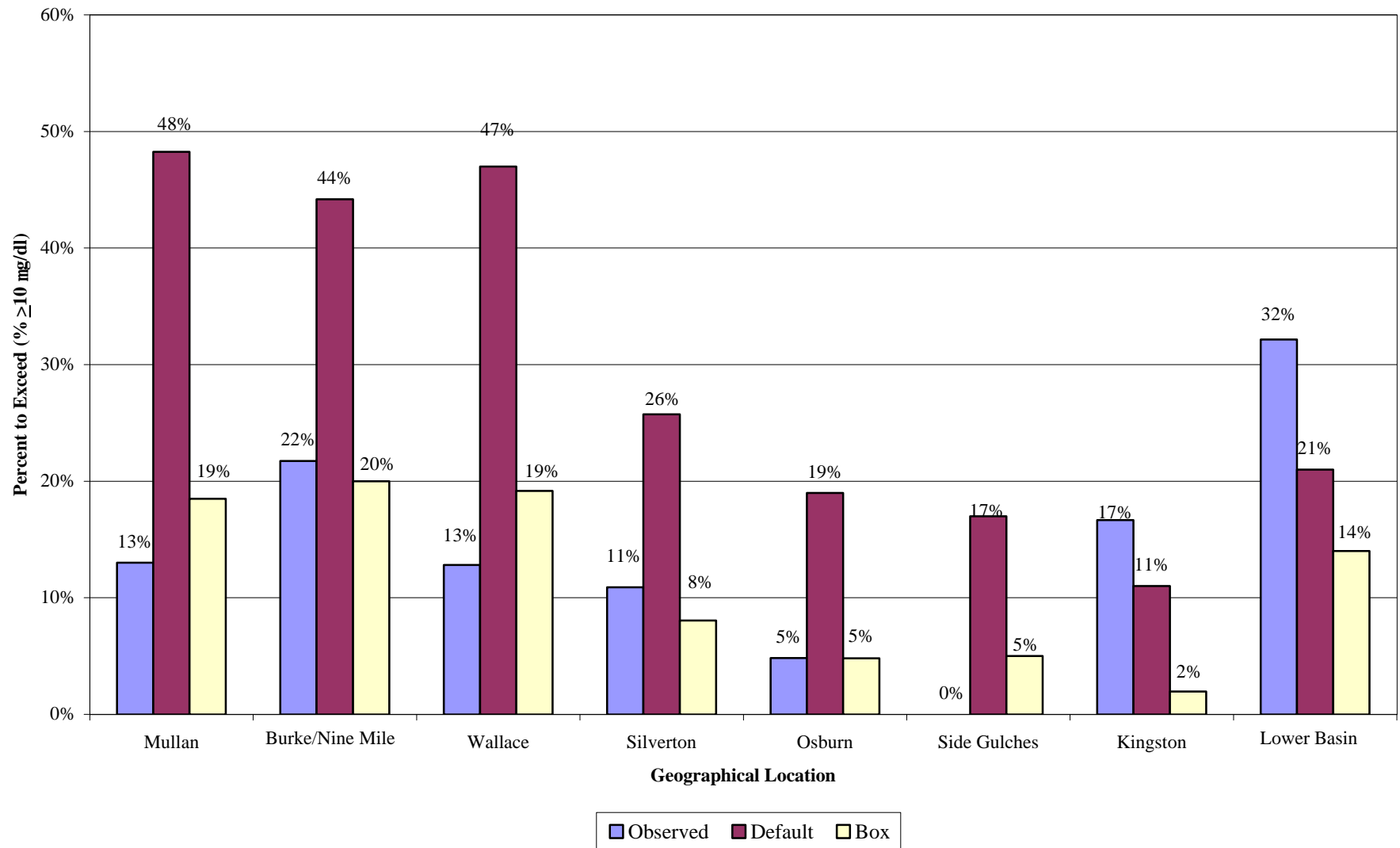**Figure 8-4 Basin Mean Blood Lead Levels by Age (1996 - 1999 combined)**

**Figure 8-5 Percent of Children to Exceed Critical Toxicity Levels by Age
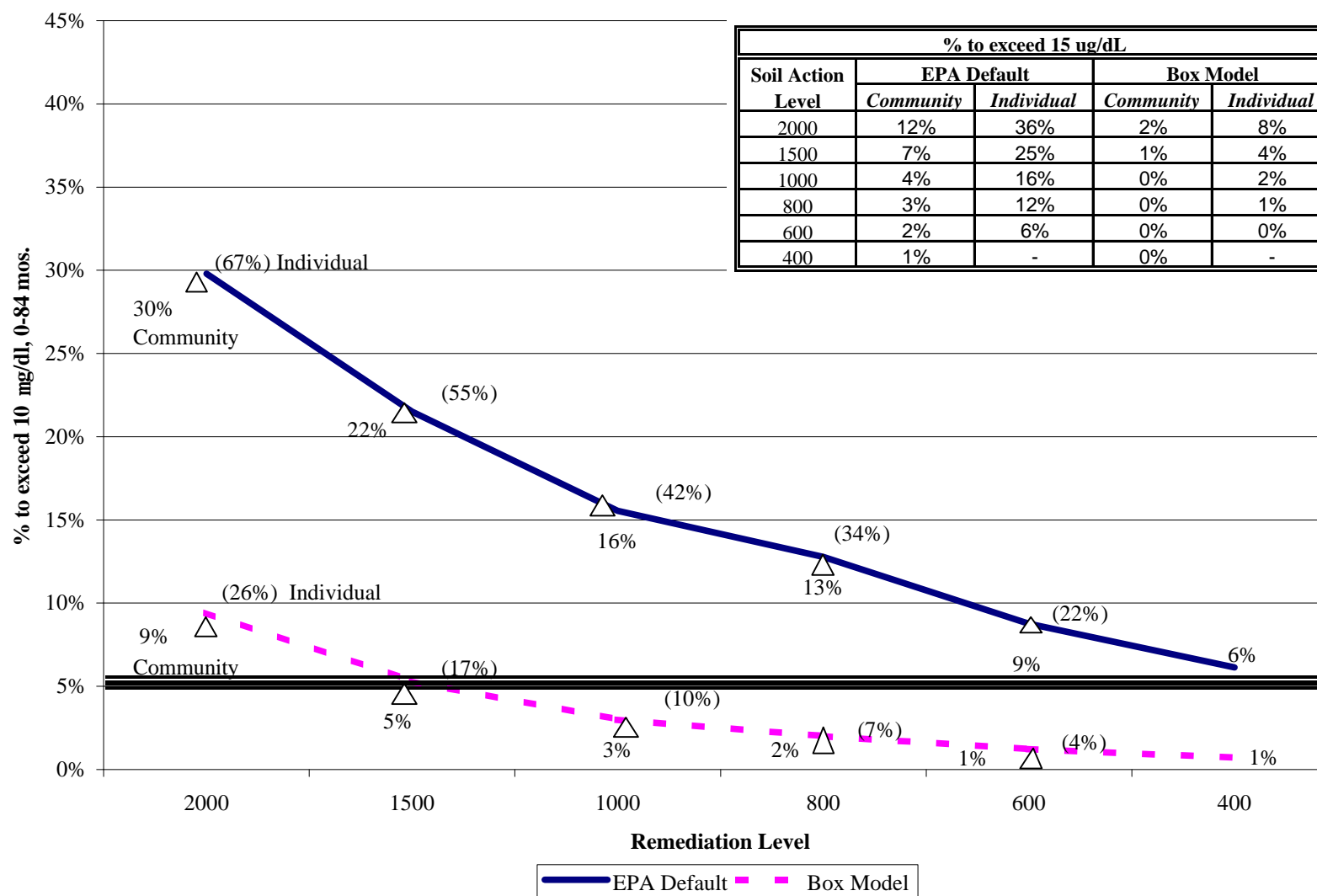(Basin-wide 1996 - 1999 Combined)**

**Figure 8-6 Observed and Predicted Geomean Blood Lead Levels for 0-84 Month Old Children Only ·
IEUBK Batch Mode**

Figure 8-7 Observed and Predicted Percent to Exceed 10 μg/dl for 0-84 Month Old Children - IEUBK Batch Mode

Figure 8-8a Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Mullan

	% to exceed 15 ug/dL			
Soil Action Level	**EPA Default**		**Box Model**	
	Community	*Individual*	*Community*	*Individual*
2000	12%	36%	2%	8%
1500	7%	25%	1%	4%
1000	4%	16%	0%	2%
800	3%	12%	0%	1%
600	2%	6%	0%	0%
400	1%	-	0%	-

(67%) Individual

30% Community

(55%)

22%

(42%)

16%

(34%)

13%

(26%) Individual

9% Community

(22%)

9%

6%

(17%)

5%

(10%)

3%

(7%)

2%

1%

(4%)

1%

% to exceed 10 mg/dl, 0-84 mos.

Remediation Level

—— EPA Default   - - - Box Model

Figure 8-8b Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Burke/Nine Mile

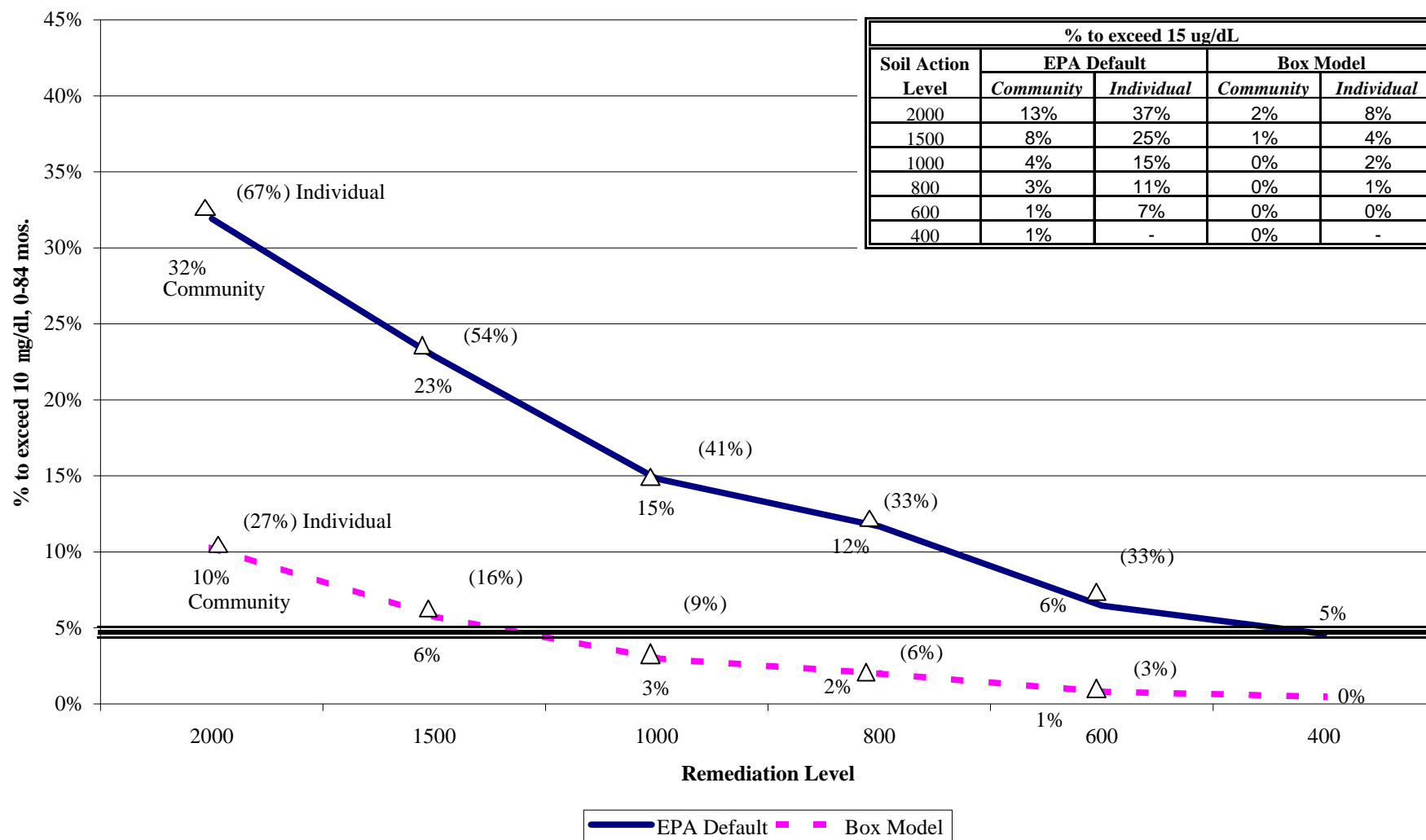|	% to exceed 15 ug/dL			
Soil Action Level	EPA Default		Box Model	
	Community	*Individual*	*Community*	*Individual*
2000	13%	37%	2%	8%
1500	8%	25%	1%	4%
1000	4%	15%	0%	2%
800	3%	11%	0%	1%
600	1%	7%	0%	0%
400	1%	-	0%	-

Figure 8-8c Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Wallace

	% to exceed 15 ug/dL			
Soil Action Level	**EPA Default**		**Box Model**	
	Community	*Individual*	*Community*	*Individual*
2000	17%	40%	3%	10%
1500	12%	28%	2%	5%
1000	7%	19%	1%	2%
800	4%	12%	0%	1%
600	2%	8%	0%	1%
400	1%	-	0%	-

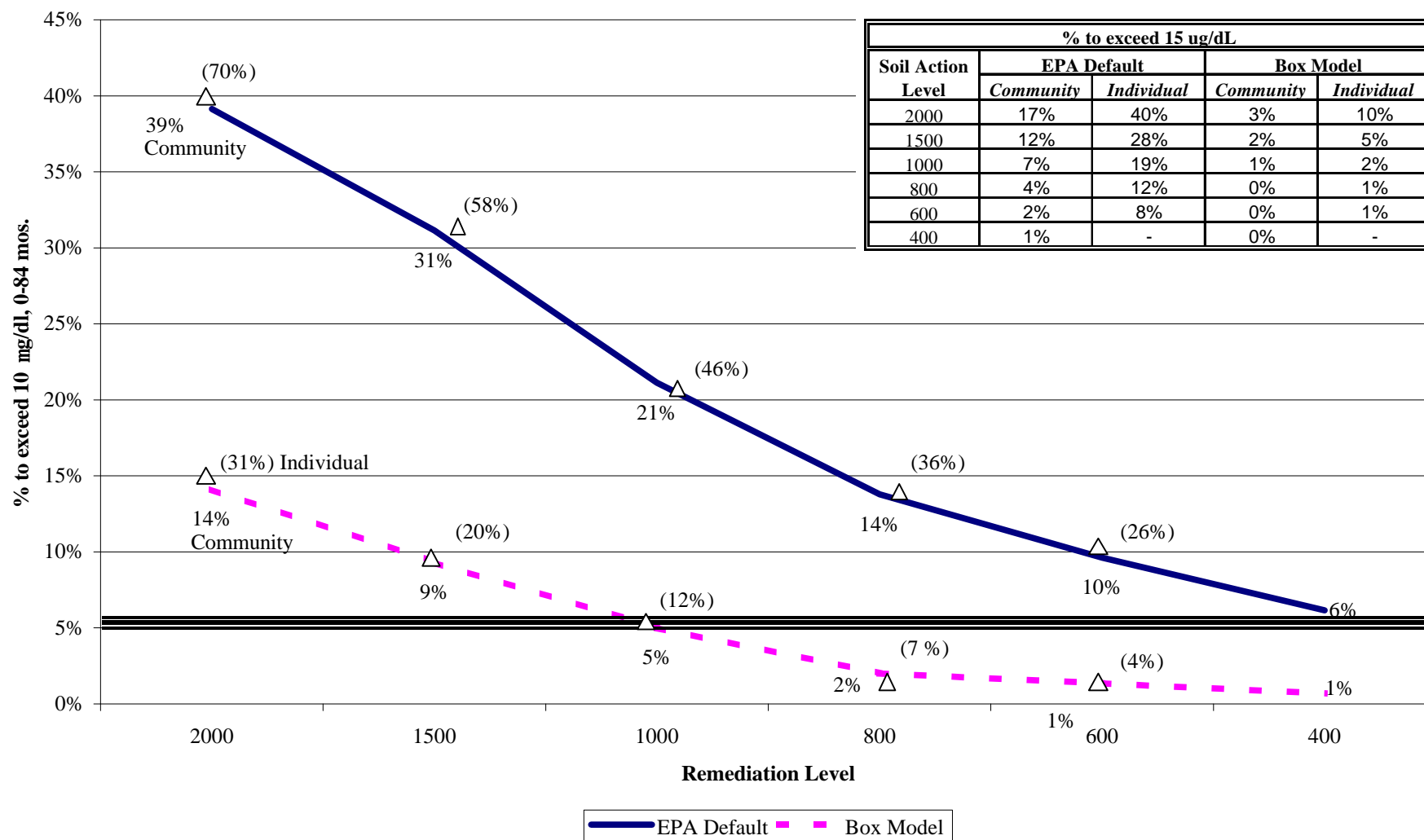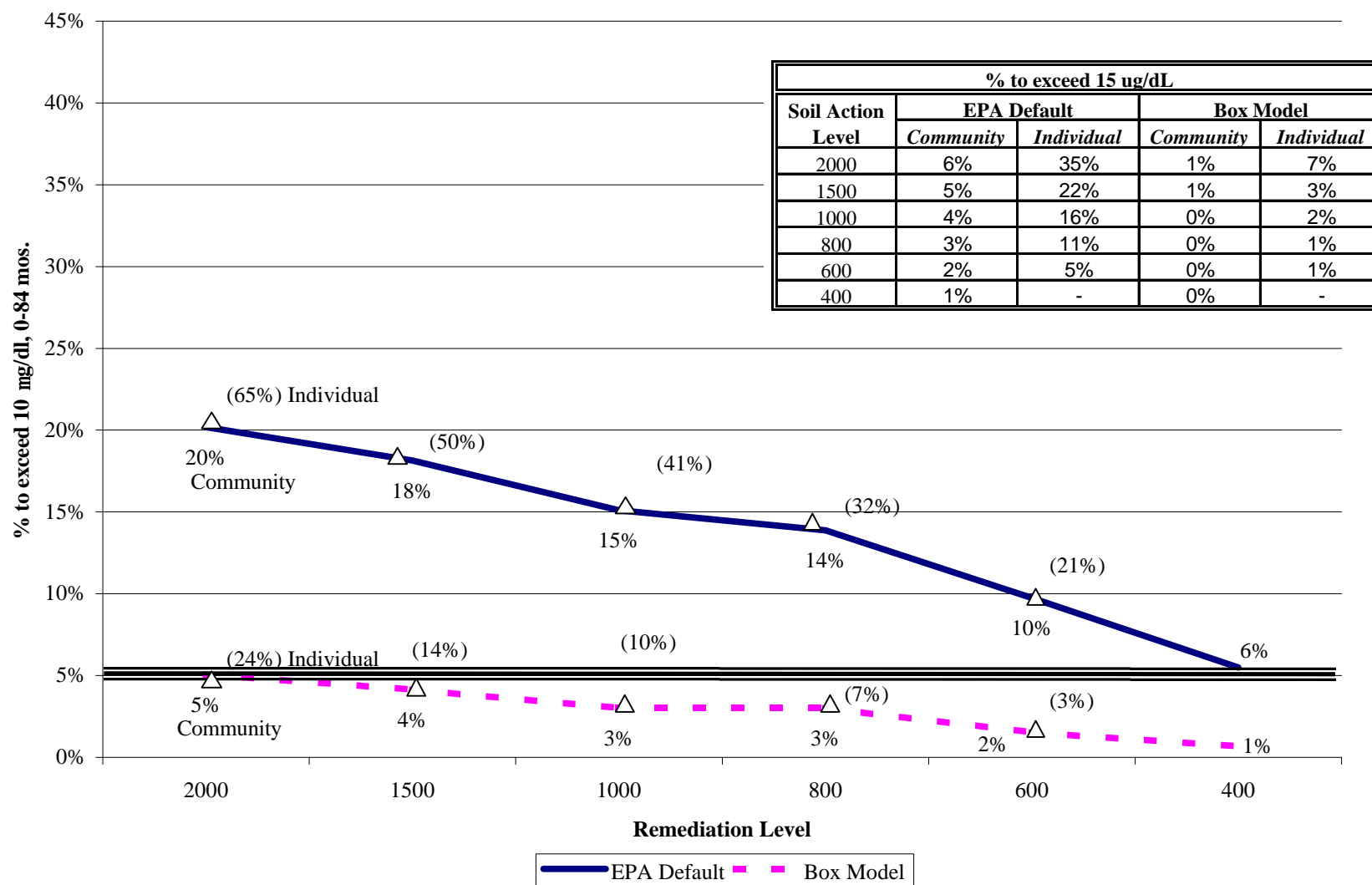# Figure 8-8d Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Silverton

	% to exceed 15 ug/dL			
Soil Action Level	EPA Default		Box Model	
	Community	Individual	Community	Individual
2000	6%	35%	1%	7%
1500	5%	22%	1%	3%
1000	4%	16%	0%	2%
800	3%	11%	0%	1%
600	2%	5%	0%	1%
400	1%	-	0%	-

% to exceed 10 mg/dl, 0-84 mos.

(65%) Individual
20% Community
(50%)
18%
(41%)
15%
(32%)
14%
(21%)
10%
6%

(24%) Individual
5% Community
(14%)
4%
(10%)
3%
(7%)
3%
(3%)
2%
1%

Remediation Level

EPA Default — Box Model

Figure 8-8e Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Osburn

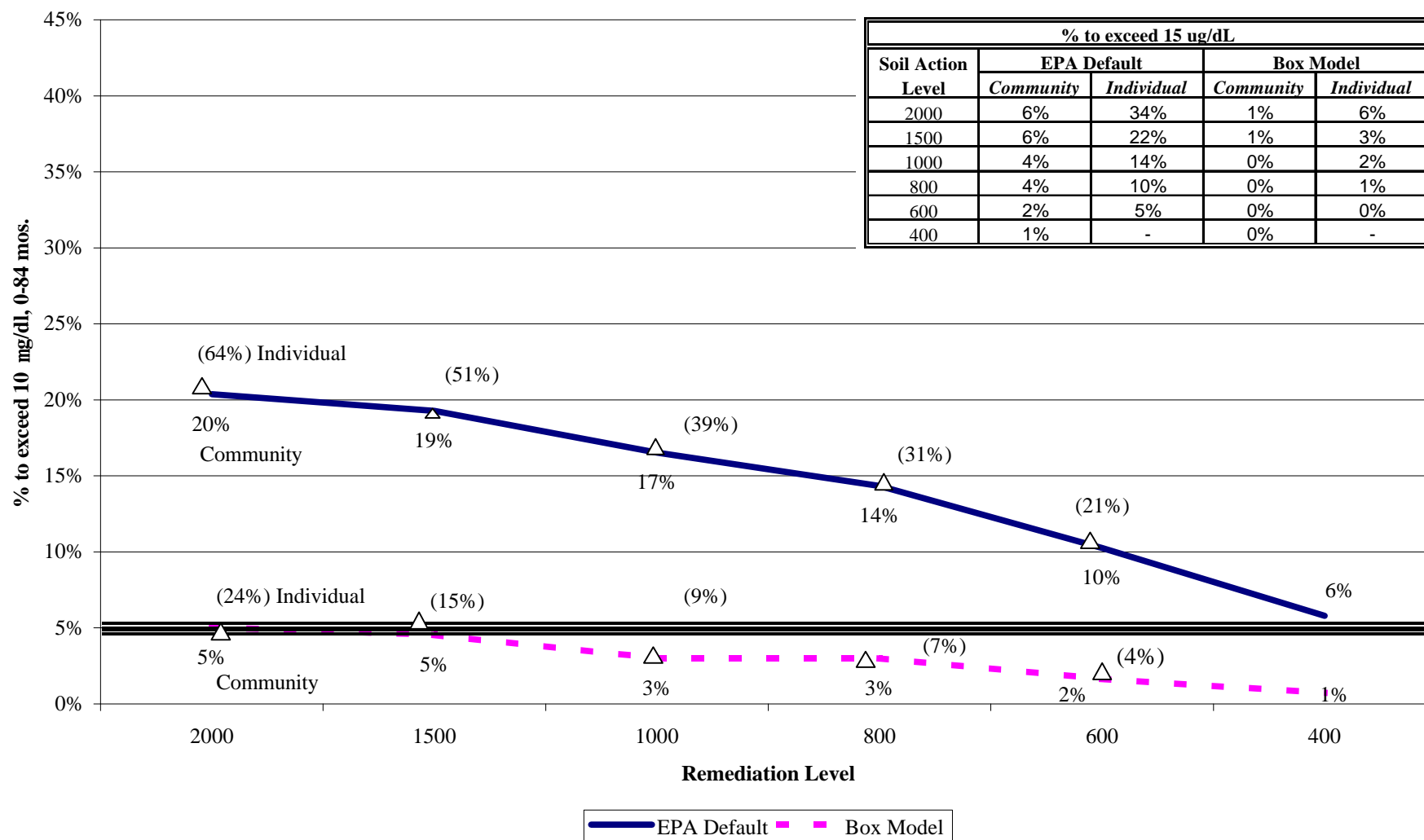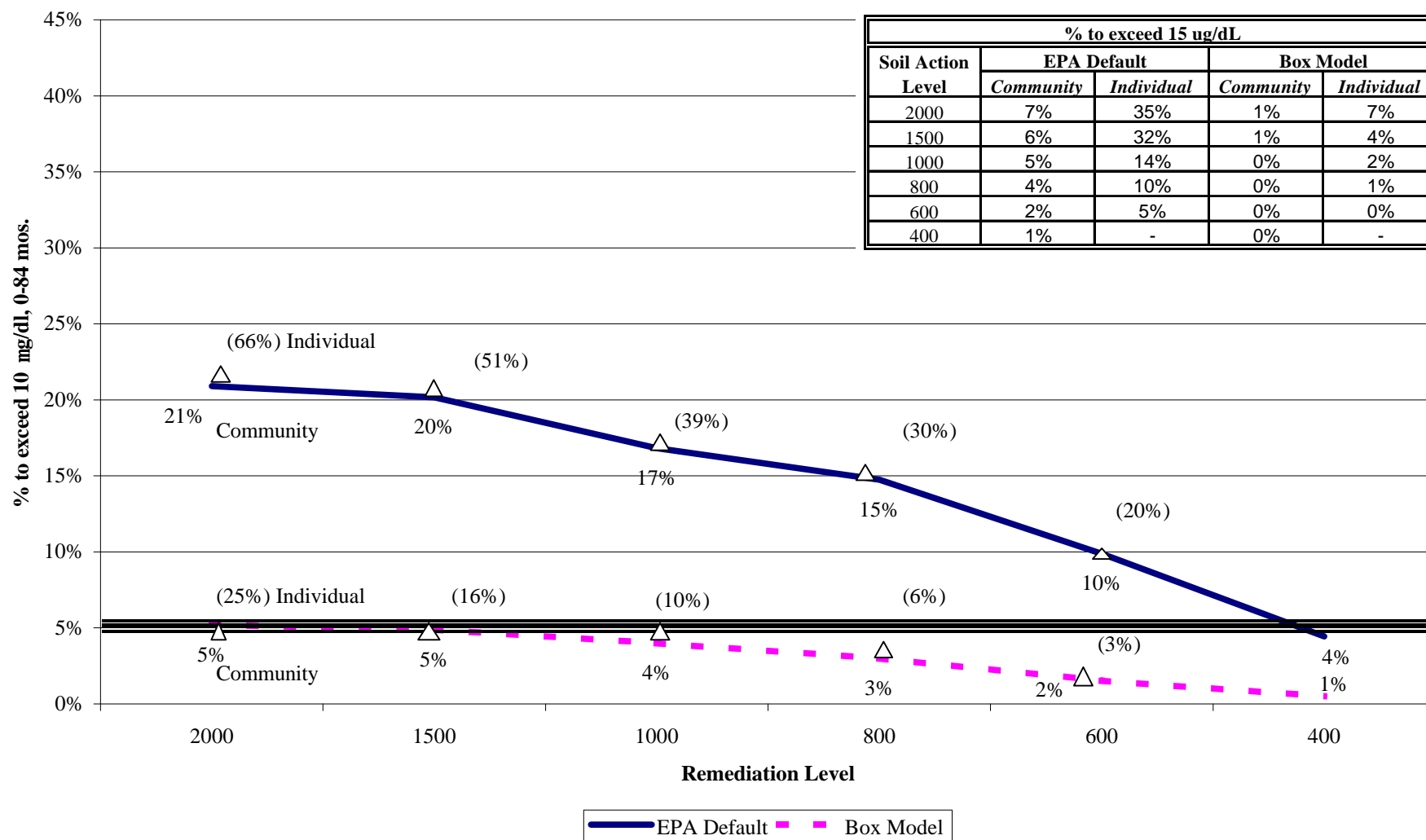|	% to exceed 15 ug/dL			
Soil Action Level	EPA Default		Box Model	
	Community	*Individual*	*Community*	*Individual*
2000	6%	34%	1%	6%
1500	6%	22%	1%	3%
1000	4%	14%	0%	2%
800	4%	10%	0%	1%
600	2%	5%	0%	0%
400	1%	-	0%	-

Figure 8-8f Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Side Gulches

% to exceed 15 ug/dL				
Soil Action Level	EPA Default		Box Model	
	Community	*Individual*	*Community*	*Individual*
2000	7%	35%	1%	7%
1500	6%	32%	1%	4%
1000	5%	14%	0%	2%
800	4%	10%	0%	1%
600	2%	5%	0%	0%
400	1%	-	0%	-

Figure 8-8g Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Kingston
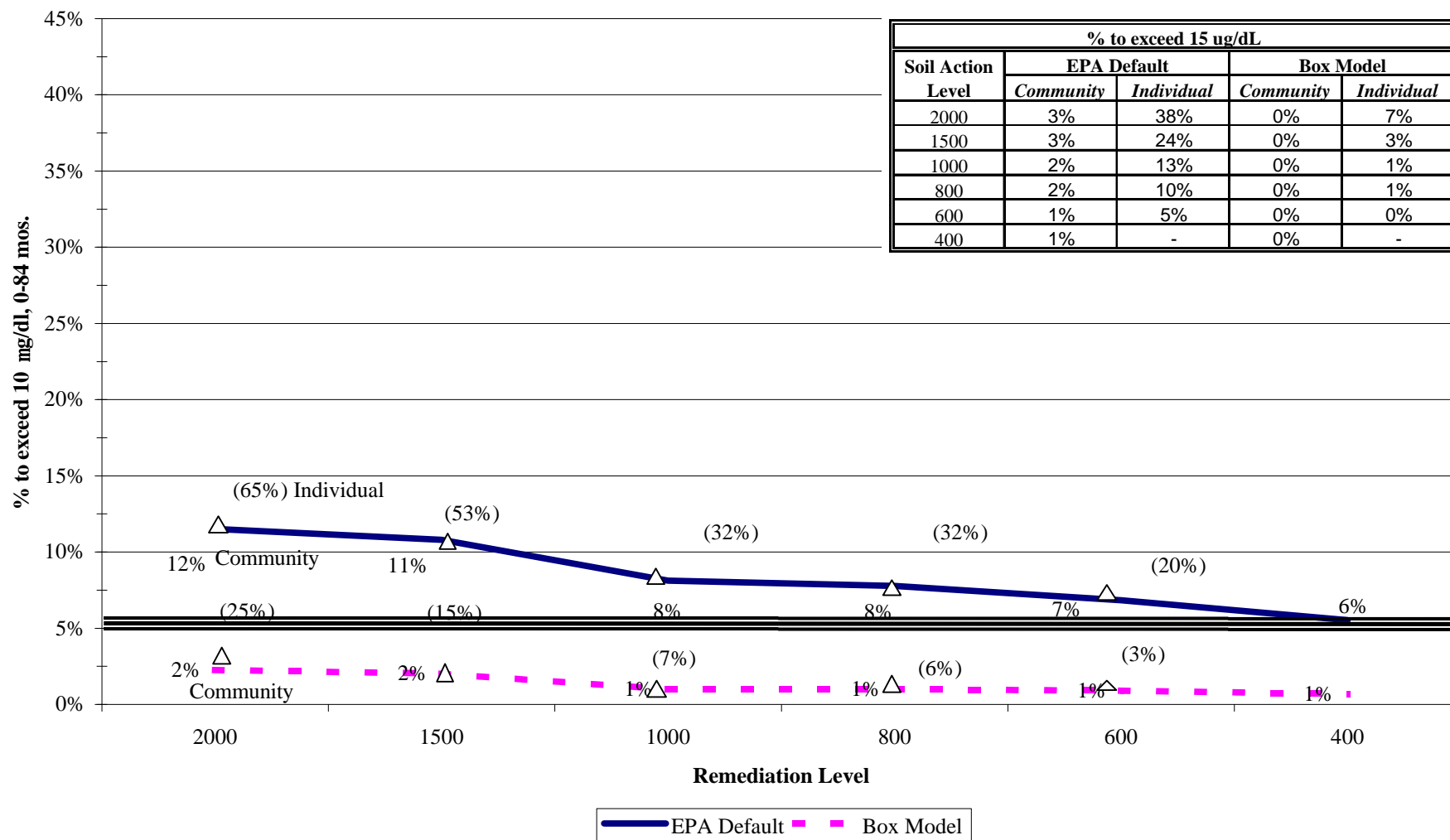

% to exceed 15 ug/dL				
Soil Action Level	EPA Default		Box Model	
	Community	Individual	Community	Individual
2000	3%	38%	0%	7%
1500	3%	24%	0%	3%
1000	2%	13%	0%	1%
800	2%	10%	0%	1%
600	1%	5%	0%	0%
400	1%	-	0%	-

Figure 8-8h Predicted Percentage of 0-84 Month Old Children to Exceed 10 mg/dl Blood Lead for Various Yard Soil Action Levels - Lower Basin

	% to exceed 15 ug/dL			
Soil Action	EPA Default		Box Model	
Level	Community	Individual	Community	Individual
2000	2%	29%	0%	4%
1500	1%	20%	0%	2%
1000	1%	14%	0%	1%
800	0%	10%	0%	1%
600	0%	4%	0%	0%
400	0%	-	0%	-